

ABSTRACT OF THE DISCLOSURE

A system and method for managing data, such as in a data warehousing, analysis, or similar applications, where dataflow graphs are expressed as reusable map components, at least some of which are selected from a library of components, and map components are assembled to create an integrated dataflow application. Composite map components encapsulate a dataflow pattern using other maps as subcomponents. Ports are used as link points to assemble map components and are hierarchical and composite allowing ports to contain other ports. The dataflow application may be executed in a parallel processing environment by recognizing the linked data processes within the map components and assigning threads to the linked data processes.